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NOTICE OF ALLOWANCE AND FEE(S) DUE

23850

7590

05/14/2008

KRATZ, QUINTOS & HANSON, LLP 1420 K Street, N.W. Suite 400 WASHINGTON, DC 20005

EXAMINER				
PERT, EVAN T				
ART UNIT	PAPER NUMBER			
2826				

DATE MAILED: 05/14/2008

١	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/572,554	03/17/2006	Naomasa Oka	060151	5079

TITLE OF INVENTION: PROCESS FOR FABRICATING A MICRO-ELECTRO-MECHANICAL SYSTEM WITH MOVABLE COMPONENTS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	08/14/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

ppropriate. All further adicated unless correcte agintenance fee notifica	ed below or directed oth	g the Patent, advance of terwise in Block 1, by (a	rders and notification a) specifying a new co	of m orresp	aintenance fees with	ill be and/or	mailed to the current (b) indicating a sepa	corresp rate "Fl	ondence address as EE ADDRESS" for
CURRENT CORRESPOND	ENCE ADDRESS (Note: Use Bl	ock 1 for any change of address)]	Fee(s paper	s) Transmittal. This rs. Each additional	certif paper,	can only be used for icate cannot be used for such as an assignment ling or transmission.	or any c	ther accompanying
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KRATZ, QUIN 1420 K Street, N Suite 400	NTOS & HANSOI I.W.	N, LLP		I here State addre trans	eby certify that this s Postal Service wi essed to the Mail mitted to the USPT	s Fee(s ith suf Stop O (57	s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the day	deposit t class tabove, ate indic	ted with the United nail in an envelope or being facsimile cated below.
WASHINGTON	I, DC 20005								(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	ГOR		ATTO:	RNEY DOCKET NO.	CONF	FIRMATION NO.
10/572,554	03/17/2006		Naomasa Oka		•		060151		5079
APPLN, TYPE	SMALL ENTITY	ICATING A MICRO-EL	PUBLICATION FEE D		PREV. PAID ISSUE		TOTAL FEE(S) DUE	1	DATE DUE
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EXAM		ART UNIT	CLASS-SUBCLASS						
PERT, E		2826	438-106000 2. For printing on t	•					
Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.						
PLEASE NOTE: Unl	less an assignee is identi h in 37 CFR 3.11. Comp	A TO BE PRINTED ON The fied below, no assignee eletion of this form is NO	data will appear on th	ne pa g an a	tent. If an assigne ssignment. and STATE OR CO	OUNT	RY)		
lease check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):	u.	Individual 🖵 Co	rporati	on or other private gro	up entit	y Government
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OTE: The Issue Fee an	d Publication Fee (if requ	uired) will not be accepte tes Patent and Trademark	d from anyone other th	_	-				
					Date				
his collection of inform n application. Confident abmitting the completed iis form and/or suggesti ox 1450, Alexandria, V lexandria. Virginia 223	tiality is governed by 35 d application form to the ions for reducing this but riginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR	on is required to obtain 1.14. This collection is depending upon the in e Chief Information Of COMPLETED FORMS	or restindiving TO	etain a benefit by the mated to take 12 m dual case. Any cor to U.S. Patent and To THIS ADDRESS.	ne publ ninutes mment Γradem SENI	ic which is to file (and to complete, includin s on the amount of tir nark Office, U.S. Depa O TO: Commissioner to	by the g gatherne you nertment for Pater	USPTO to process) ring, preparing, and require to complete of Commerce, P.O. nts, P.O. Box 1450,

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APPLICATION NO.	ATION NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/572,554 03/17/2006		Naomasa Oka	060151	5079	
23850 75	90 05/14/2008		EXAM	INER	
KRATZ, QUINT	OS & HANSON, LI	PERT, EVAN T			
1420 K Street, N.V	V.		ART UNIT	PAPER NUMBER	
Suite 400 WASHINGTON, I	OC 20005		2826 DATE MAILED; 05/14/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 363 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 363 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/572,554	OKA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	EVAN PERT	2826	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in a or other appropriate communities. This application is su	his application. If not included ication will be mailed in due course. THIS	
1. 🛮 This communication is responsive to the preliminary amen	ndment filed March 17, 2006.		
2. ☑ The allowed claim(s) is/are <u>1-23</u> .			
 3. Acknowledgment is made of a claim for foreign priority until a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do 	e been received. e been received in Application	No	
International Bureau (PCT Rule 17.2(a)).	cuments have been received	in this national stage application from the	•
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	MENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which give			
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) 🔲 including changes required by the Notice of Draftspers	son's Patent Drawing Review	(PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
 (b) ☐ including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1) 			
each sheet. Replacement sheet(s) should be labeled as such in t			
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of Info	ormal Patent Application	
 Notice of References Cited (F10-092) Dotice of Draftperson's Patent Drawing Review (PTO-948) 	6. ☐ Interview Sur	• •	
3. Information Disclosure Statements (PTO/SB/08),	Paper No./M	lail Date mendment/Comment	
Paper No./Mail Date <u>0306</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. ⊠ Examiner's S	tatement of Reasons for Allowance	
of Biological Material	9.		



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P.O. Box 1450

Alexandria, Virginia 22313-1450

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	-	ATTORNEY DOCKET NO.		
10572554	3/17/2006	OKA ET AL.	060151			
			E	EXAMINER		
KRATZ, QUINTOS & HANSON, LLP 1420 K Street, N.W.			EVAN PERT			
Suite 400 WASHINGTON, DC 20	0005		ART UNIT	PAPER		
			2826	20080511		

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

At p. 7, line 15, change "coves" to -covers--.

In claim 23, line 9, change "drive" to -driven--.

Allowable Subject Matter

- 2. Claims 1-23 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

Regarding claims 1-22, the prior art does not disclose or suggest the claimed process, applicable to manufacture of an actuator for an optical switch, for example, such as depicted in Fig. 8, wherein the claimed process as a whole can be particularly distinguished from prior art by the claimed steps including selective etching combined with bonding upper and lower substrates to form movable and fixed components, with a step including a recess where movable components are placed upwardly in the recess and where fixed components are placed directly on the lower substrate.

Regarding claim 23, the prior art does not disclose or suggest the claimed system, particularly characterized by upper and lower substrates bonded with movable components located above a recess in the lower substrate with a groove formed at the interface between upper and lower substrates for making interior space open to the

exterior of the system (which allows trapped air to escape to facilitate more accurate bonding alignment of upper and lower substrates).

Notably, pending claim 23 includes limitations of original claim 25 (now cancelled); as such, the "x" references cited in the international search report for "claims 23 and 24" do not apply to pending claim 23.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to EVAN PERT whose telephone number is (571)272-1969. The examiner can normally be reached on M-F (7:30AM-3:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sue Purvis can be reached on 571-272-1236. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/572,554 Page 4

Art Unit: 2826

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ETP May 11, 2008

/Evan Pert/ Primary Examiner, Art Unit 2826